

Work Order ID 146276

Monday, May 16, 2016 10:33:18 AM

146276

Page 1

Item ID: D3602-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Item Name: Angle

Stop ***NS2***

Start Date: 5/19/2016 Start Qty: 10.00

10

Cust Item ID:

Required Date: 5/24/2016 Req'd Qty: 10.00

10

Customer:

Reference:

MAY 16 2016Approvals: Process Plan: MCS Date: _____ Tooling: _____ Date: _____Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D3602	Rev B

100

0.13

100

Purchasing

Memo

0.30

Purchasing

ISSUE P/O: 32461
POSSIBLE SUPPLIER: GFI
C OF C IS REQUIRED10 **MAY 23 2016** **DAS**
13
9-89

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.20

Packaging

10x Sp/6-6-27

115

QC6- Inspect dimensions to drawing

0.00

115

QC

Memo

0.00

Quality Control

(10) 16-07-09 **DAS**
9
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Work Order ID 146276

Monday, May 16, 2016 10:33:18 AM

146276

Page 2

Item ID: D3602-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Angle

Start Date: 5/19/2016 Start Qty: 10.00

10

Cust Item ID:

Required Date: 5/24/2016 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Quality Control

Memo

DAS
9
9-89

150

Identify as per dwg & Stock Location: ST201

0.00

150

Packaging

Packaging

Memo

0.10

DAS
6
9-89Cant
10

PC

JUL 07 2016

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Quality Control

Memo

1.00

16/7/12

DAS
21
9-89

JUL 11 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		FAULT CATEGORY Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

Monday, May 16, 2016 10:33:26 AM

Page 1

Work Order ID: 146276

Parent Item: D3602-1

Parent Item Name: Angle

146276

D3602-1

Start Date: 5/19/2016

Required Date: 5/24/2016

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:A New Issue 07-02-27 JLM
IPP Rev:B 08-12-11 as per ECN08-577 DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2423 *D2423* Lug Extrusion		Manufactured	No	DAS 13 9-89			f	246.9529		8.986842			
N/A JUL 11 2016													
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				Metec			246.9529237						
				127892			38.9964647						
				131451			207.956459						
D3235-1P *D3235-1P* Lug		Purchased	No				Each	0.0000		125			

D 3602-1P

X10

10X SP16-6-27.

DQA: _____ Date: _____



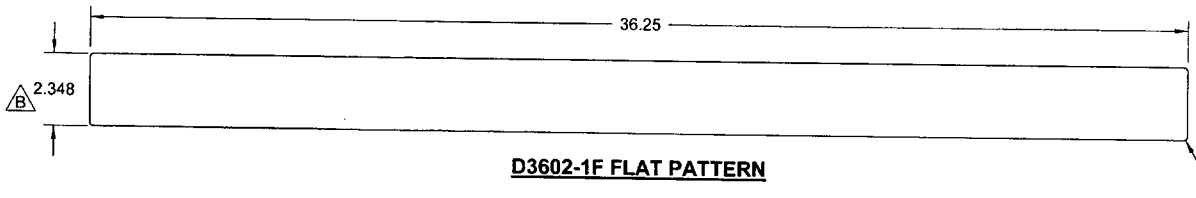
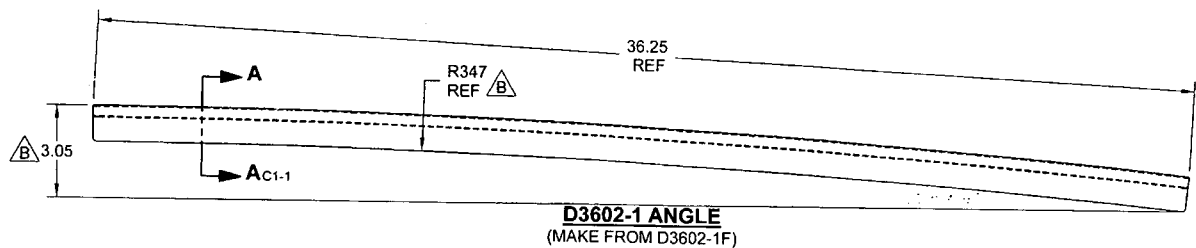
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

8 7 6 5 4 3 2 1



TOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
146276 MJS
16-05-16

RELEASED
01/03/11 MJD

- NOTES:**
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 20 GAUGE, 0.038 THICK, PER AMS 5513 OR AMS 5524, REF. DART SPEC. M304S20GA
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFY WITH DART P/N "D3602-1" USING FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT: 0.97 lbs

B	ADDED ROUNDED SHAPE: R347 REF AND 3.05; 2.348 WAS 2.328. REF: NCR#09-014	MB	09.02.02
A	NEW ISSUE	MB	07.02.20
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.02.02		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D3602**

TITLE **ANGLE**

REV. B
SHEET 1 OF 1
SCALE
NTS

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8 7 6 5 4 3 2 1



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO32461

Purchase Order Date 5/24/2016 1:38:03 PM

PO Print Date 5/26/2016

Page Number 1 of 2

Order From :

VC-GFI001

Ship To : DART AEROSPACE LTD

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

REVISED \$

MAY 27 2016

Contact Name

Vendor Phone

514 630 4877

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						
1	D3602-1P)	Angle	6/20/2016 Yes 6/20/2016	FN	10.00 Each	\$62.00	\$620.00
	AS PER DWG.D3602 REV.B B146276						
						Line Total:	\$620.00
2	71401-45	PROCUREMENT QUALITY CLAUSES	6/20/2016 No 6/20/2016		1.00	\$0.00	\$0.00
	PROCUREMENT QUALITY CLAUSES						
	A005 RIGHT OF ENTRY						
	A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER,						
	(DOCUMENTATION MAINTAINED BY SUPPLIER)						
	A012 CHEMICAL AND PHYSICAL TEST REPORTS						
	A016 PERSONNEL QUALIFICATION						
	A017 RAW MATERIAL IDENTIFICATION (AS						
	APPLICABLE)						
	A026 CERTIFICATION OF MATERIAL CONFORMANCE						
	A041 QUALITY MANAGEMENT SYSTEM						
	A042 DART NOTIFICATION BY SUPPLIER						
	A043 RETENTION OF QUALITY DOCUMENT						

Note:

5/26/2016



180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.: (514) 630-4877 - FAX: (514) 630-4849

GFI est une division de Thomas & Betts Limitée / GFI is a division of Thomas & Betts Limited



BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON / SHIPPING MEMO NO.		PAGE
JR - DY	MO - MO	AN - YR			
20	06	16	0582285		1/1



VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

CODE DE CLIENT / CUSTOMER CODE		N° DE CONTRAT / JOB NO.	VOTRE N° DE COMMANDE / YOUR PURCHASE ORDER NO.	EXPÉDIÉ PAR / SHIP VIA
DART GFI-0299		0318610	PO32461	
QUANTITÉ / QUANTITY	N° DE PIÈCE / PART NO.		DESCRIPTION	

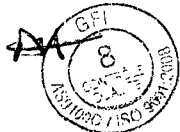
2 D3602-1P

ANGLE

ITEM 1
C OF C REQ'D

MFG. JOB# 0298686 - 001 QTY 2 pcs

DUE DATE: 22 June 2016



2016-6-27

EXPÉDITEUR / SHIPPER

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.



180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

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BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON SHIPPING MEMO NO	PAGE
JR - DY	MO - MO	AN - YR		
20	06	16	0582284	1/1



VENDU À / SOLD TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

CODE DE CLIENT CUSTOMER CODE	N° DE CONTRAT JOB NO	VOTRE N° DE COMMANDE YOUR PURCHASE ORDER NO	EXPÉDIÉ PAR SHIP VIA
DART GFI-0299	0318610	PO32461	

QUANTITÉ QUANTITY	N° DE PIÈCE PART NO	DESCRIPTION
8	D3602-1P	ANGLE ITEM 1 C OF C REQ'D
MFG. JOB# 0318610-001 QTY 8 pcs DUE DATE: 22 June 2016		
<i>Sp/6-6-27</i>		

EXPÉDITEUR
SHIPPER

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

CERTIFICATE OF COMPLIANCE
CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. 3 OUR JOB NO 0318610 SHIPPING MEMO 0582285

ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME	DWG ISSUE
<u>1</u>	<u>2 PCS</u>	<u>PO32461</u>	<u>D3602-1P</u>	<u>B</u>	<u>ANGLE</u>	<u>B</u>

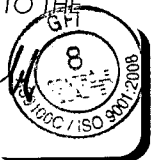
MATERIAL	SUPPLIED BY	MAT. REL. NO.
<u>.040 THK AMS 5513 304 ANN</u>	<u>TW METALS/ OUTOKUMPU</u>	<u>H/N 504954</u>

	PROCESS	PROCESSOR	RELEASE NOTE #
1	<u>FIRST ARTICLE INSPECTION REPORT ON FILE</u>	<u>GFI</u>	<u>N/A</u>
2	<u>REF. GFI MANUFACTURING JOB NUMBER 0298686-001 (2 PCS)</u>	<u>GFI</u>	<u>N/A</u>
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 20 JUNE 2016

G.F.I. Q.C. REP. *Saeed Hassan*



CERTIFICATE OF COMPLIANCE
CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

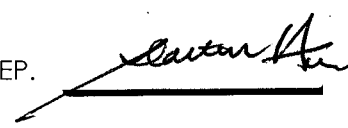
CERTIFICATE NO. 4 OUR JOB NO 0318610 SHIPPING MEMO 0582284

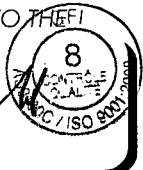
ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME	DWG ISSUE
<u>1</u>	<u>8 PCS</u>	<u>PO32461</u>	<u>D3602-1P</u>	<u>B</u>	<u>ANGLE</u>	<u>B</u>
MATERIAL		SUPPLIED BY		MAT. REL. NO.		
<u>.040 THK AMS 5513 304 ANN</u>		<u>TW METALS/ NORTH AMERICAN STAINLESS</u>		<u>H/N X8R7</u>		

	PROCESS	PROCESSOR	RELEASE NOTE #
1	<u>FIRST ARTICLE INSPECTION REPORT ON FILE</u>	<u>GFI</u>	<u>N/A</u>
2	<u>REF. GFI MANUFACTURING JOB NUMBER 0318610-001 (8 PCS)</u>	<u>GFI</u>	<u>N/A</u>
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE GFI DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 20 JUNE 2016

G.F.I. Q.C. REP. 





1 Wright Avenue - Rear
LeRoy NY 14482
Tel: 585-768-5600
FAX: 15857685601

CERTIFICATE OF COMPLIANCE

Your Order Number: 0087681

Our delivery receipt Number: 12104955

Date: 6/13/16

This is to certify that the material shipped against the above order on the above delivery receipt, consisting of:

Quantity: 69.000 LB

Line Number: 1

Grade: 304 A AMS5513 .040

Part #: TS040481204A

Heat Number: X5R7

Specification:

Complies in all Respects with the item description



By:

Janice Clark

Authorized Test Department Clerk

NORTH AMERICAN STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificato: 340902 02

Mail To:
UNITED PERFORMANCE METALS
3475 SYMMES ROAD
HAMILTON, OH 45015

Ship To:
UNITED PERFORMANCE METALS
3475 SYMMES ROAD
HAMILTON, OH 45015

Date: 2/08/2016 Page: 1

Stop1: 302/304/304L

Finish: 2B

Your Order: 01027944

NAS Order: AN 0679816 01

Corrosion: ASTM A262/14;180Bond-OK

PRODUCT DESCRIPTION:

S/S COIL, C.R. ANNEALED & PICKLED; UNS 30400/30403/30200
ASTM A240/15a, A480/14b, A666/15; ASME SA240/13, SA480/13, SA666/13
CHEM ONLY ON FOLLOWING ASTM: A276/13, A479/13a, A484/13a, A312/13
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
AMS 5511H/5513J/5516P XMRK; MIL-S-5059D AMD3 (X CRN MEAS); MIL-4043B
NACE MR0175/ISO 15156-3:2009 A, MR0103/07; QQS766D-A X MAG PERM
MTN. SOLUTION ANNEAL TEMP 1900F. WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; RoHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg.by a Quality Mgt.Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DFPAs Compliant



Product ID	Supplier ID	Thickness	Width	Weight	-----Length-----	Mark	Pieces	COMMODITY CODE
02X8R7 B	* 02X8R7	.0401	48.0000	28,555	COIL	.2000	11	1 00731

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical analysis per ASTM A751/08

HEAT Supplier#	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
X8R7 X8R7	US	.0163	18.2790	.4435	1.7965	.3010	.0829	8.0520	.0280	.0010
Lab Check:		.0186	18.1830	.4210	1.8070	.3030	.0788	8.0600	.0290	.0013
		SI %								
		.3090								
Lab Check:		.3290								

MECHANICAL PROPERTIES

Product Id	Supplier Id	UTS KSI	20C .2% YS KSI	20C ELONG %-2"	% Hard RB	Tail Hard	180 Bond: 0.0"	Grain No.	D Per F.N.
02X8R7 B	02X8R7	F T 97.66	53.97	47.95	89.00	87.50	OK	12.00	3.39

UPMOC
 Review / Approved
 Date: ALL
 By: MLV Date: 2-10-16
 Pages: 1

UPMOC
 Review / Approved
 Date: ALL
 By: MM Date: 2-10-10
 Approved: 1

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

2/08/2016

UNITED PERFORMANCE METALS
This is to certify that in accordance with the record
your files the material shipped on your purchase order
conforms to the following:

Size: 48 X 120
P.O.: D12017113
Part#: NAS GHENT, KY
Sales #: 01273765
Quantity: 1

Description: 304304L .037-.045 AMS5513 PVC-2
Customer: GFI, Incorporated
SNP2ed: 05/02/2016
Hose: XBR7

Authorized Signature Lynne Harper Lynne Harper



PACKING SLIP

ORDER NO.: 12101871 FROM: ROCH PAGE 1

CUST. NUMBER: 1203148 NET WGT: 65.000 REQ. DATE: 02/24/15 CONFIRMED
SOLD TO: SHIP TO:
GFI INC GFI INC
180 AVE. LABROSSE 180 AVE LABROSSE
POINTE CLAIRE QC PIONTE CLAIR QC
CANADA CN H9R 1A1 CANADA CN H9R 1A1
SALESPERSON: DEANNA PIMM SHIP BY: 02/24/15
TERMS: 1% 10 NET 30 VIA: COM CAR-SPECIF
F.O.B.: SHIPPING POINT FREIGHT: COLLECT
CUST ORD NO.: 0085500 RELEASE NO.:
RECEIVING PHONE: 514 630-4877

LINE ITEM DESCRIPTION
0001 SFSBO 304 ANNEALED AMS5513 .040

ORD QTY INVOICE QTY
1.000 EA 1.000 EA

PART#: TS040481204A
** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: EAR99 Export License: NLR
GRAIN TO LENGTH
GRAIN TO LENGTH

Heat # 504954

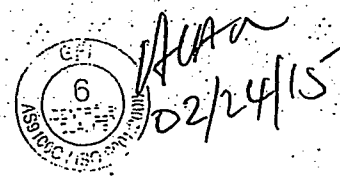
SHIP VIA UPS-SCS DEFERED ACCT# 543483804 OR YELLOW COLLECT
CLEAR CUSTOMS THRU CONSIGNEE'S BROKER: DHL GLOBAL FORWARDING
ISABELLE 514-734-4534 OR SYLVAIN 514-734-4527
FAX 514-344-8705

BY: RT 001- UNLOAD TYPE: PER CUSTOMER SP

GFI INC.

MATÉRIEL REÇU NE SERA ACCEPTÉ
APRÈS VÉRIFICATION DE DIMENSION
AISSEUR, POIDS ET CONDITIONS

SIGNATURE Sylvain DATE 24 FEB 15



DATE SHIPPED _____

THANK YOU FOR THIS ORDER

DATE FILLED
TERMS AND CONDITIONS APPLICABLE TO THE SALE
OF THESE PRODUCTS ARE SET FORTH ON THE
REVERSE SIDE FOR YOUR CAREFUL REVIEW.

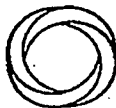
Description: 304/304L ANN .038-.042 AMS5513 PVC
Customer: GFI, Incorporated
Shipped: 02/17/2015
Heat: 504954

Size: 48 X 120
P.O.: D12016304
Part#:
Sales #: 01245391
Quantity: 1

UNITED PERFORMANCE METALS
This is to certify that in accordance with the records in
our files the material shipped on your purchase order
conforms to the following.

Irina Garrett
Irina Garrett

Manufacturer / Fabricante / Herstellerwerk

outokumpu 

Type of document / Tipo de documento / Art der Prüfbescheinigung

INSPECTION CERTIFICATE

CERTIFICADO DE INSPECCION
ABNAHMEPRÜFZEUGNIS
according to / de acuerdo con / nach
EN 10204-3.1

Document number /
N° de certificado /
Bescheinigungs-Nr.
0000117503 / 2

Page / Pagina / Seite:
1 / 2

1 ThyssenKrupp Drive; P.O. Box 13000; Calvert, AL 36513-1300

UNITED PERFORMANCE METALS, INC.
3475 SYMMES ROAD
HAMILTON OH 45015
USA

Customer/Ship to / Cliente / Besteller/Empfänger

UNITED PERFORMANCE METALS, INC. HAMILTON

Customer's order number / N° de Pedido Cliente / Kundenbestellnr.
01025466

Manufacturer's works order no. / N° de Pedido Manufactura / Werksauftragsnr.
901174078 / 001

Delivery note no. / N° de Entrega / Lieferanzeige Nr.
85319769 / 010

Product / Producto / Erzeugnis
COIL/BOBINA/BAND

Terms of delivery / Condiciones de entrega / Lieferbedingungen

ASTM A240/240M, ASME SA-240 Sec.II Part A Ed. 2013
ASTM A480/480M, ASME SA-480 Sec.II Part A Ed. 2013
ASTM A 666-10
SAE AMS 5513 J
SAE AMS 5511 H
SAE AMS 5516 P
PED 97/23/EC - Compliant
EN 10088-2

Steel grade and quality / Acero / Stahlsorte und Gütegruppe

Type 304L/304/302
UNS S30400
UNS S30403
UNS S30200
1.4307
1.4301

Customer's material no. /
N° de material del cliente /
Kundenmaterial-Nr.

Product dimensions (Thickness / Width / Length) /
Dimensiones (Espesor / Ancho / Largo) /
Maße des Erzeugnisses (Dicke / Breite / Länge)

Steelmaking procedure /
Proceso de manufact./
Herstellart

Finish /
Acabado /
Ausführung

1.02 mm x 1,219.20 mm
0.0401 inch x 48.0000 inch

AOD

Ilc

28

Packing-No. /
N° de Empaque /
Paket-Nr.

No. of pieces /
Piezas /
Stückzahl

Actual weight /
Peso actual /
Ist-Gewicht

Coil No. /
Bobina No. /
Band-Nr.

Heat No. /
Colada /
Schmelzennr.

Sample Id. /
N° de muestra /
Proben-Id.

Sample Id. /
N° de muestra /
Proben-Id.

6223389

1

18,409 lb / 8,350 kg

746976

504954

1000249044

1000249045

Sum / Suma / Summe

1

18,409 lb / 8,350 kg

Heat /
Colada /
Schmelze

Country of heat /
País de colada /
Erschmelzungsland

Chemical composition / Composicion Quimica / Chemische Zusammensetzung

% C	% Si	% Mn	% P	% S	% Cr	% Mo	% Ni	% N	% Cu
0.028	0.38	1.33	0.029	0.0010	18.16	0.29	8.06	0.063	0.41

504954

USA

Sample Position /
Localiz. de la muestra /
Probenlage

TRANSVERSE

Inspection lot /
Lote de inspección /
Prüflot

YS0.2%
PSI / MPa

YS1.0
PSI / MPa

TS
PSI / MPa

El. A2"
%

HRB

Grain S
ASTM E

1000249044

39,159 / 270

43,945 / 303

92,530 / 638

59.3

82

8

1000249045

39,449 / 272

44,235 / 305

93,401 / 644

60.6

82

8

Resistant to intergranular corrosion / Resistente contra corrosión inter-granular / Beständig geg. interkrist. Korrosion: ASTM A 262 PRACTICE E - Sample Acceptable

OK

Dimensions-surface / Dimensiones-Superficie / Maße-Oberfläche:

OK

Test of identity (spectrum analysis) / Control de identidad (análisis espectrográfico) / Verwechslungsprüfung (Spektralanalyse):

Heat Treatment: Solution annealed 1920°F Min / Air cooled
Bending test O.K.

No welding or weld repairs were performed on this material

Grain Size as per ASTM E112

DFARS 225.872-1 Compliant

UPNQC
Review / Approved
Specs: All
By: *PI* Date: 12-10-14
#Pages: 2

Originator of the document / Originador del documento / Aussteller der Bescheinigung

Outokumpu Stainless USA, LLC

An ISO 9001: 2008 certified company
Quality Management System EU PED 97/23/EC certified

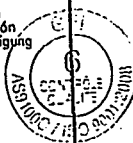
Certificate is generated automatically / Certificado es generado automáticamente /
Das Zeugnis wurde elektronisch erstellt

The information provided is a true copy of data on file /
Los valores mostrados corresponden a los datos archivados /
Die generierten Werte entsprechen den gespeicherten Daten

Andrew Faucett
Phone: +1 251 829 3492

Name of expert / Nombre del experto / Name des Sachverständigen

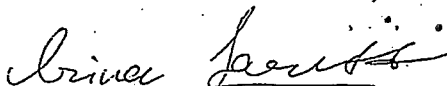
Date of issue and validation
Fecha de emisión y validación
Datum Ausstellung / Bestätigung
12/04/2014



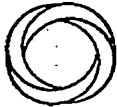
Description: 304/304L ANN .038x.042 AMS5513 PVC
Customer: GFI, Incorporated
Shipped: 02/17/2015
Heat: 504954

Size: 48 X 120
P.O.: D12016304
Part#:
Sales #: 01245391
Quantity: 1

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Irina Garrett

Manufacturer / Fabricante / Herstellerwerk

outokumpu 

Type of document / Tipo de documento / Art der Prüfbescheinigung

INSPECTION CERTIFICATE

CERTIFICADO DE INSPECCION

ABNAHMEPRÜFZEUGNIS

according to / de acuerdo con / nach

EN 10204-3.1

Document number / 12/04/2014

Nº de certificado

Bescheinigungsn.

Page / Pagina / Seite:

2 / 2

No intentional additions of Mercury compounds were made or used

Free of radioactive contamination

EU RoHS Directive 2011/65/EU Compliant

Product manufactured in the USA

Country of Heat as per ISO 3166-1



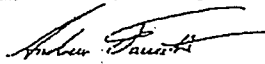
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Andrew Faucett
Phone: +1 251 829 3492

Name of expert / Nombre del experto / Name des Sachverständigen

Date of issue and validation
Fecha de emisión y validación
Datum Ausstellung / Bestätigung

12/04/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO32461

Purchase Order Date 5/24/2016 1:38:03 PM

PO Print Date 5/24/2016

Page Number 1 of 2

Order From :

VC-GFI001

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 514 630 4877

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	D3602-1P AS PER DWG.D3602 REV.B B146276	Angle	6/20/2016 Yes XXXXXX 06/22/2016	FN	10.00 Each	XXX 62.00	\$340.00
Line Total:							\$340.00
2	71401-45 PROCUREMENT QUALITY CLAUSES PROCUREMENT QUALITY CLAUSES A005 RIGHT OF ENTRY A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER) A012 CHEMICAL AND PHYSICAL TEST REPORTS A016 PERSONNEL QUALIFICATION A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE) A026 CERTIFICATION OF MATERIAL CONFORMANCE A041 QUALITY MANAGEMENT SYSTEM A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENT	PROCUREMENT QUALITY CLAUSES	6/20/2016 No 6/20/2016		1.00	\$0.00	\$0.00

APPROVED

By Pedro at 3:37 pm, May 25, 2016

Note:

5/24/2016



180 Labrosse Av.
Pointe Claire, QC
H9R 1A1

TO:

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

(CPO) PO#:

PO32461



(POI) ITEM#:

0001



PACKAGE COUNT:

1 OF 1

(PNR) PART NUMBER:

D3602-1P



(SHQ) QUANTITY:

2



PACKAGE WEIGHT:

(UNT) UNIT OF MEASURE:

EA



(PSN) PACKING SLIP #:

0582285



(COO) ORIGIN:

CA



(NAF) NAFTA:



(TRA) TRACEABILITY #:

0298686-001



180 Labrosse Av.
Pointe Claire, QC
H9R 1A1

TO:

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

(CPO) PO#:

PO32461



(POI) ITEM#:

0001



PACKAGE COUNT:

1 OF 1

(PNR) PART NUMBER:

D3602-1P



(SHQ) QUANTITY:

8



PACKAGE WEIGHT:

(UNT) UNIT OF MEASURE:

EA



(PSN) PACKING SLIP #:

0582284



(COO) ORIGIN:

CA



(NAF) NAFTA:



(TRA) TRACEABILITY #:

0318610-001

